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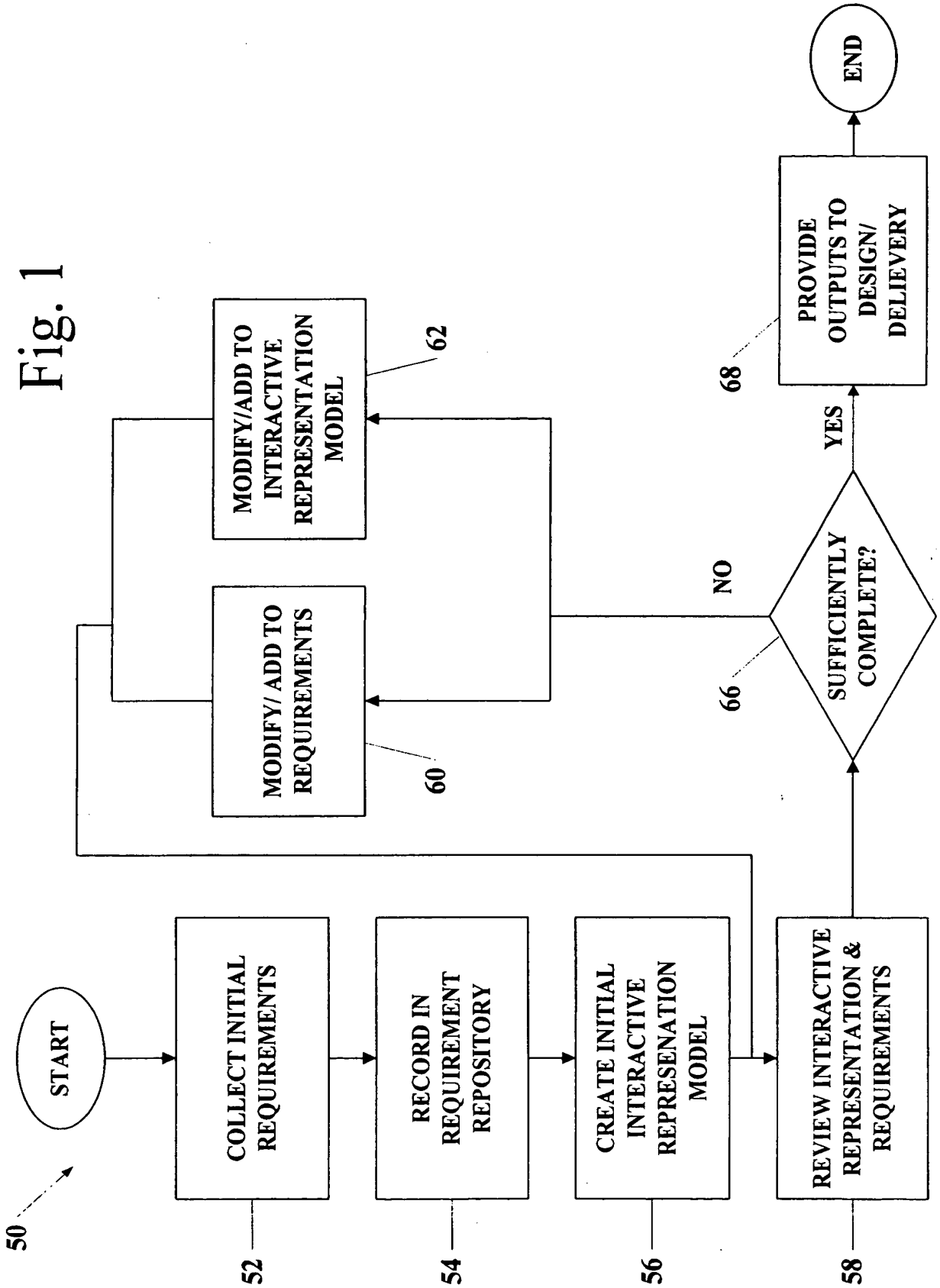
Fig. 1


START
50
COLLECT INITIAL REQUIREMENTS
52
RECORD IN REQUIREMENT REPOSITORY
54
CREATE INITIAL INTERACTIVE REPRESENATION MODEL
56
REVIEW INTERACTIVE REPRESENTATION & REQUIREMENTS
58
SUFFICIENTLY COMPLETE?
66
NO
YES
MODIFY/ ADD TO REQUIREMENTS
60
MODIFY/ADD TO INTERACTIVE REPRESENTATION MODEL
62
PROVIDE OUTPUTS TO DESIGN/ DELIEVERY
68
END

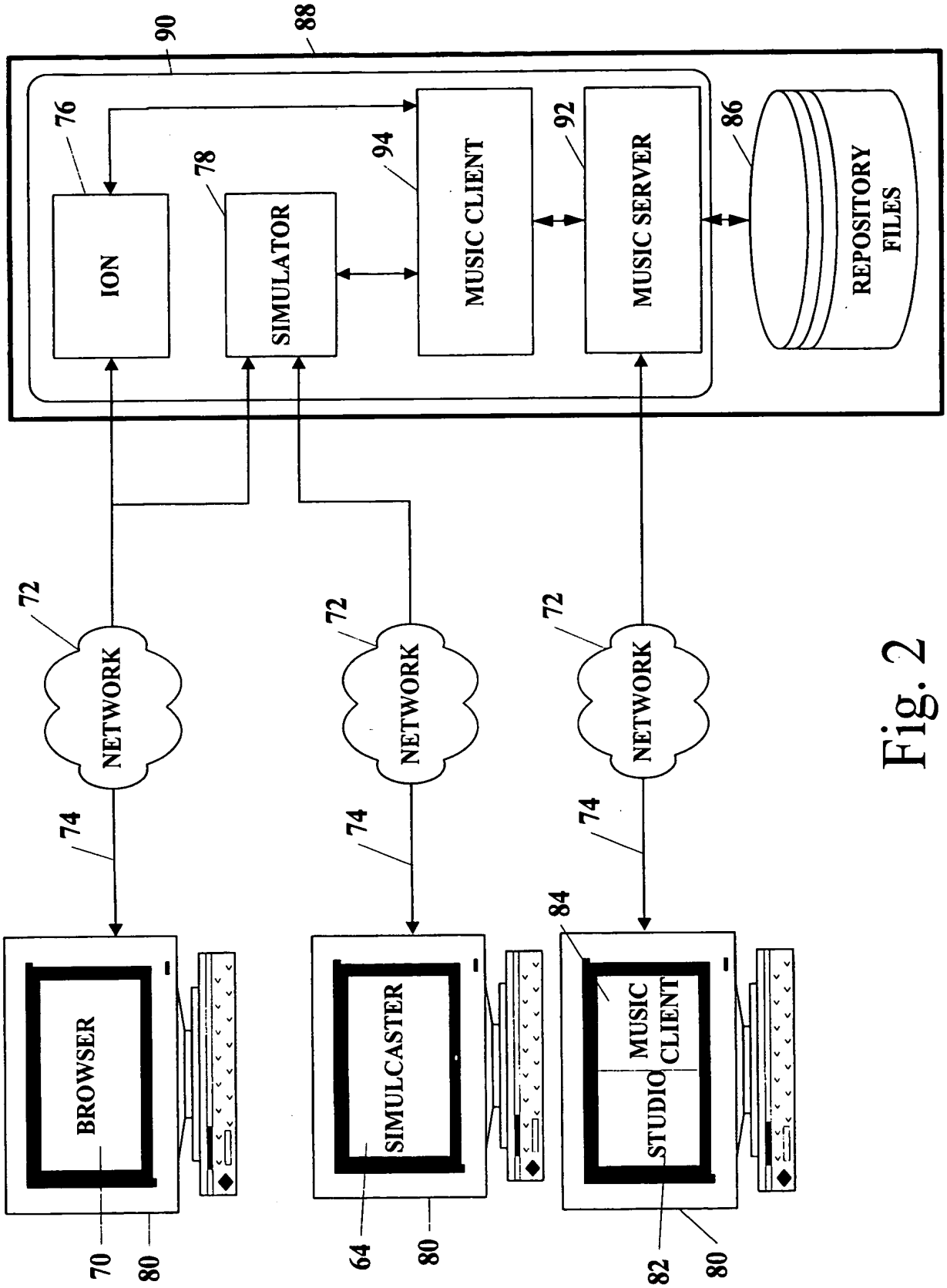

88
90
76
78
94
92
86
ION
SIMULATOR
MUSIC CLIENT
MUSIC SERVER
REPOSITORY FILES
72
72
72
NETWORK
NETWORK
NETWORK
74
74
74
84
BROWSER
SIMULCASTER
MUSIC STUDIO CLIENT
70
80
64
80
82
80

Fig. 2

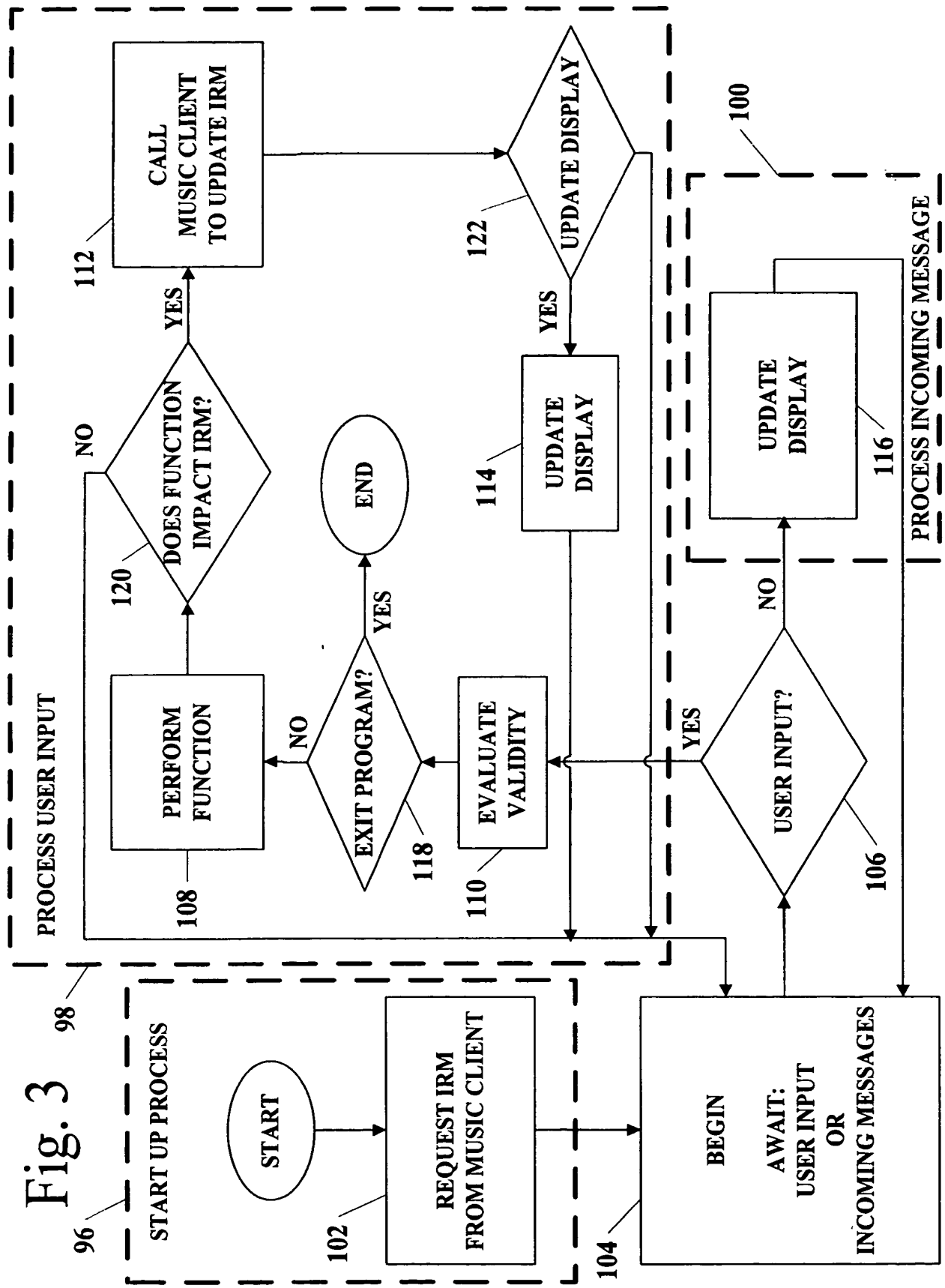

START UP PROCESS
96
START
REQUEST IRM FROM MUSIC CLIENT
102
BEGIN
AWAIT: USER INPUT OR INCOMING MESSAGES
104
98
PROCESS USER INPUT
USER INPUT?
106
YES
NO
EVALUATE VALIDITY
110
EXIT PROGRAM?
118
YES
NO
END
PERFORM FUNCTION
108
DOES FUNCTION IMPACT IRM?
120
YES
NO
CALL MUSIC CLIENT TO UPDATE IRM
112
UPDATE DISPLAY
114
YES
UPDATE DISPLAY
122
100
PROCESS INCOMING MESSAGE
UPDATE DISPLAY
116

Fig. 3

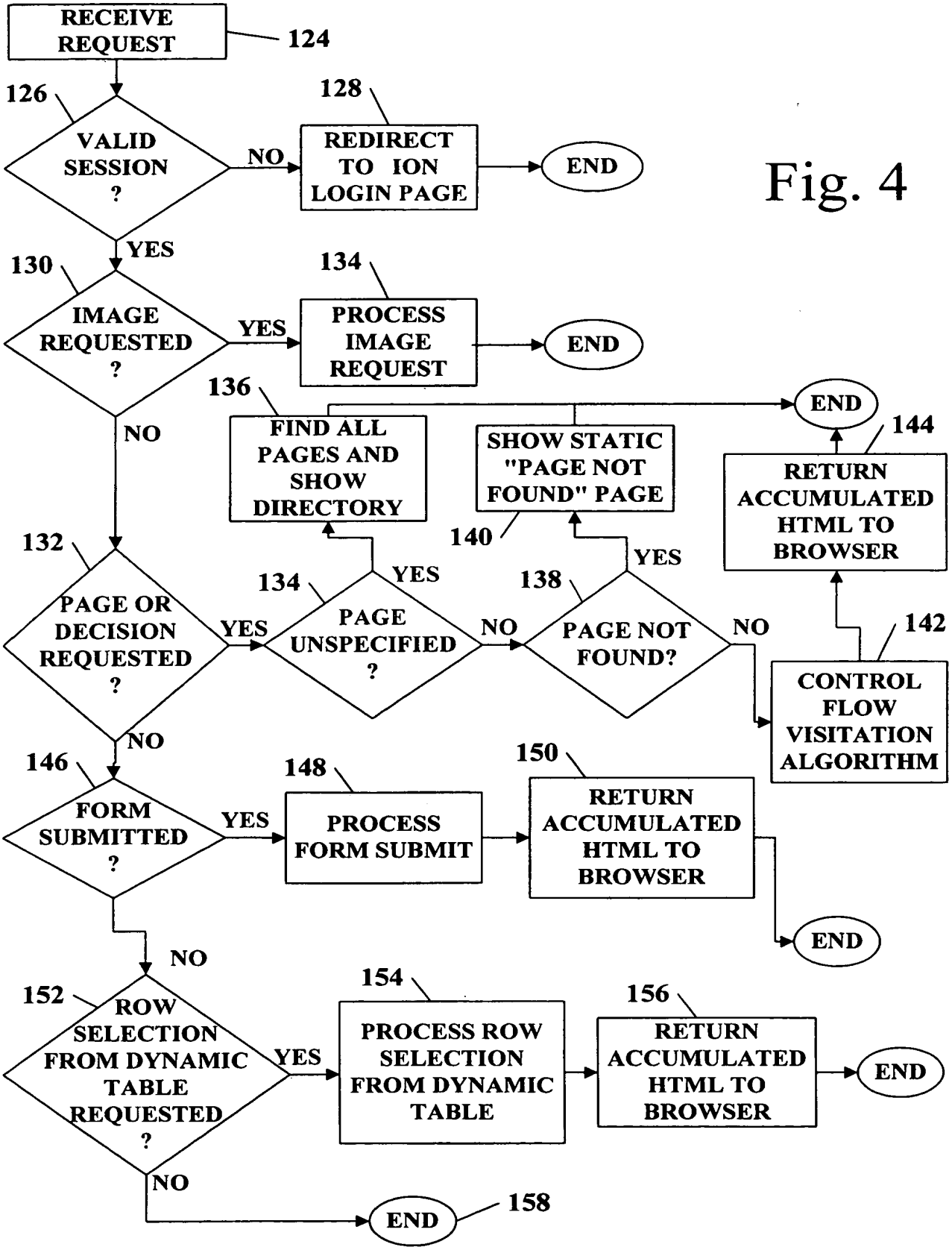

RECEIVE REQUEST
124
126
VALID SESSION ?
NO
128
REDIRECT TO ION LOGIN PAGE
END
YES
130
IMAGE REQUESTED ?
YES
134
PROCESS IMAGE REQUEST
END
NO
136
FIND ALL PAGES AND SHOW DIRECTORY
SHOW STATIC "PAGE NOT FOUND" PAGE
140
END
144
RETURN ACCUMULATED HTML TO BROWSER
132
PAGE OR DECISION REQUESTED ?
YES
134
PAGE UNSPECIFIED ?
YES
NO
138
PAGE NOT FOUND?
YES
NO
142
CONTROL FLOW VISITATION ALGORITHM
NO
146
FORM SUBMITTED ?
YES
148
PROCESS FORM SUBMIT
150
RETURN ACCUMULATED HTML TO BROWSER
END
NO
152
ROW SELECTION FROM DYNAMIC TABLE REQUESTED ?
YES
154
PROCESS ROW SELECTION FROM DYNAMIC TABLE
156
RETURN ACCUMULATED HTML TO BROWSER
END
NO
END
158

Fig. 4

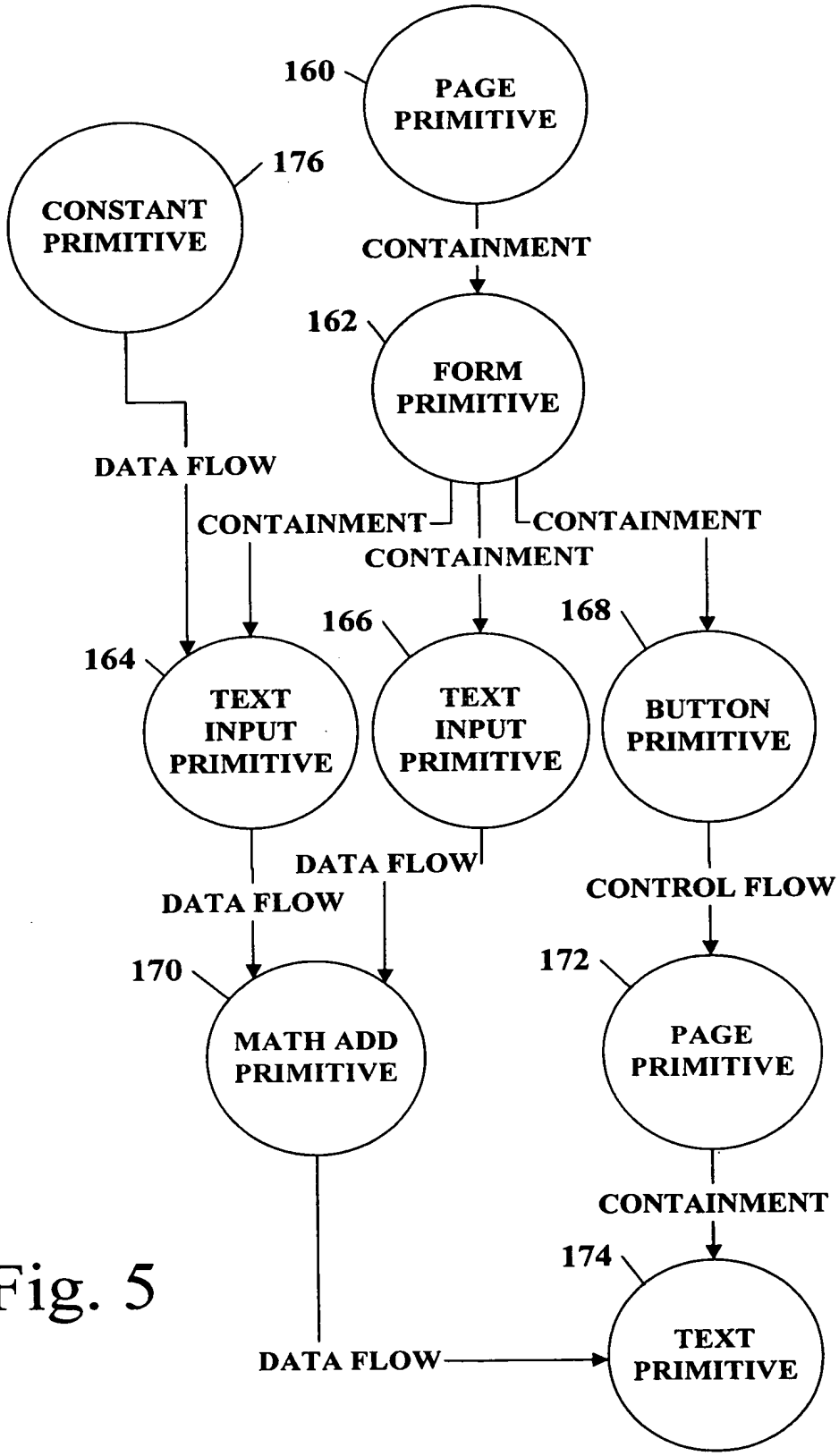

160
PAGE PRIMITIVE
176
CONSTANT PRIMITIVE
CONTAINMENT
162
FORM PRIMITIVE
DATA FLOW
CONTAINMENT
CONTAINMENT
CONTAINMENT
164
TEXT INPUT PRIMITIVE
166
TEXT INPUT PRIMITIVE
168
BUTTON PRIMITIVE
DATA FLOW
DATA FLOW
CONTROL FLOW
170
MATH ADD PRIMITIVE
172
PAGE PRIMITIVE
CONTAINMENT
174
TEXT PRIMITIVE
DATA FLOW

Fig. 5

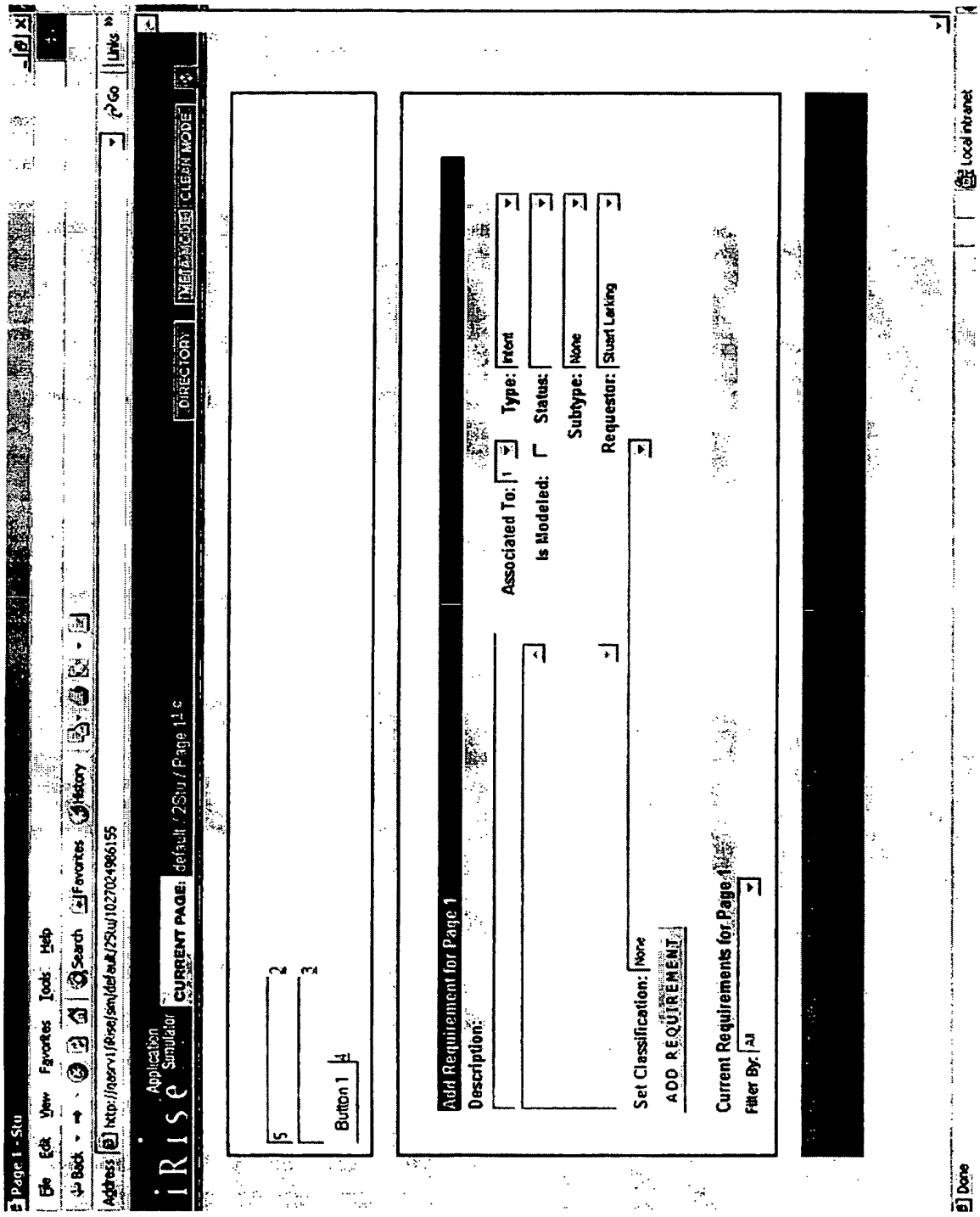
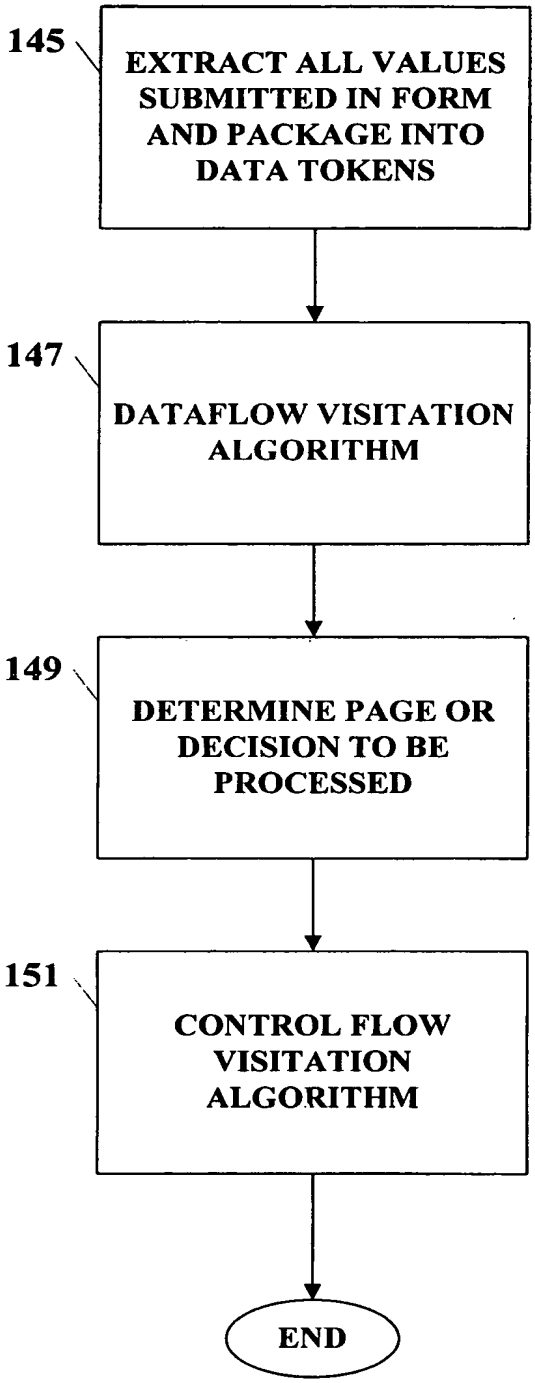

Page 1 - Stu
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://pserv1/Rose/sm/default/2Stu/102702486155
iRise Application Simulator
CURRENT PAGE: default / 2Stu / Page 1 1 c
DIRECTORY
MEMBERSHIP
CLIENT MODE
5
2
3
Button 1
4
Add Requirement for Page 1
Description:
Associated To:
Type: Intent
Is Modeled:
Status:
Subtype: None
Requestor: Stuart Larking
Set Classification: None
ADD REQUIREMENT
Current Requirements for Page 1
Filter By: All
Done
Local intranet

Fig. 6

Fig. 7


145
EXTRACT ALL VALUES SUBMITTED IN FORM AND PACKAGE INTO DATA TOKENS
147
DATAFLOW VISITATION ALGORITHM
149
DETERMINE PAGE OR DECISION TO BE PROCESSED
151
CONTROL FLOW VISITATION ALGORITHM
END

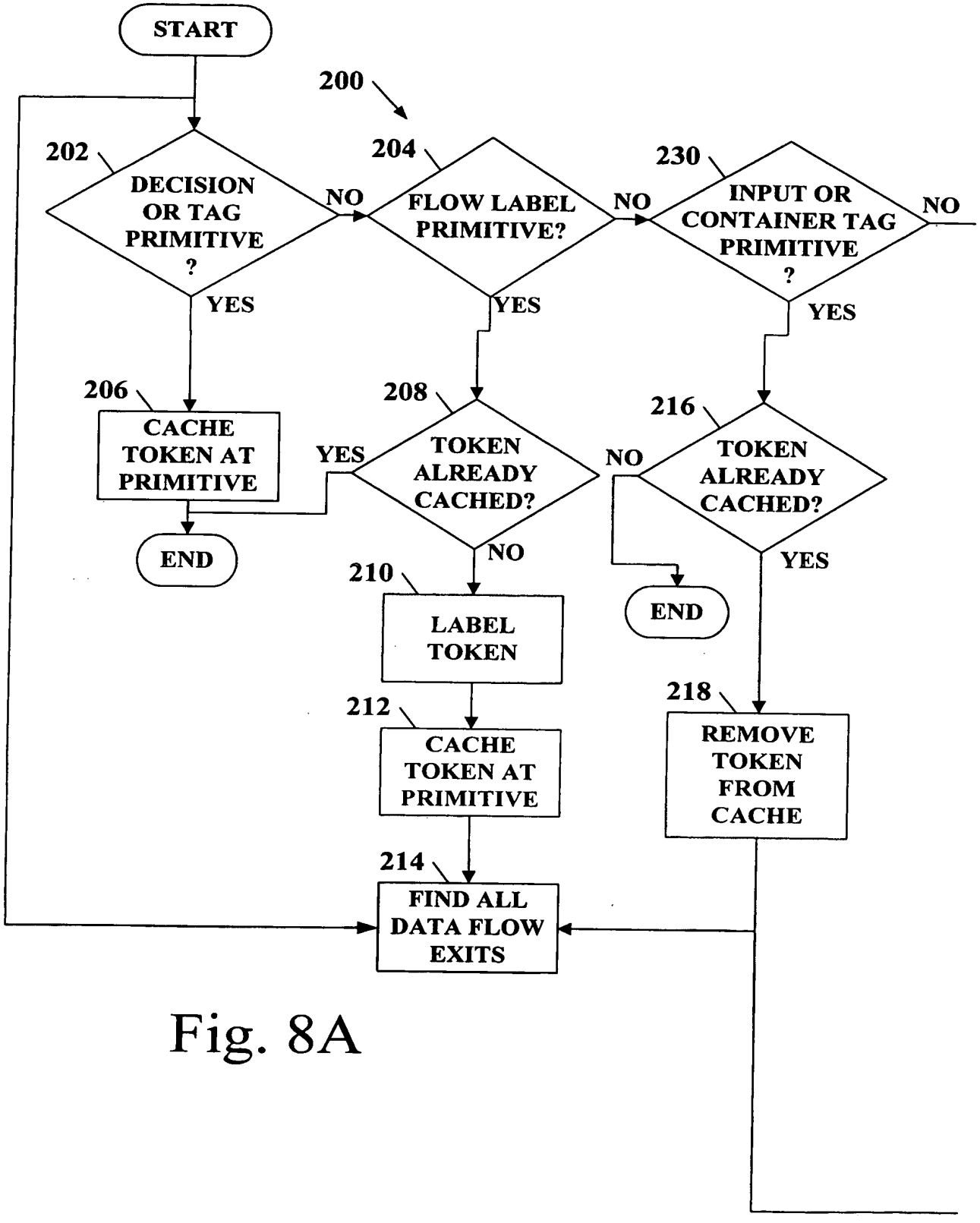

START
200
202
DECISION OR TAG PRIMITIVE ?
NO
204
FLOW LABEL PRIMITIVE?
NO
230
INPUT OR CONTAINER TAG PRIMITIVE ?
NO
YES
YES
YES
206
CACHE TOKEN AT PRIMITIVE
208
TOKEN ALREADY CACHED?
YES
216
TOKEN ALREADY CACHED?
NO
END
NO
YES
END
210
LABEL TOKEN
212
CACHE TOKEN AT PRIMITIVE
218
REMOVE TOKEN FROM CACHE
214
FIND ALL DATA FLOW EXITS

Fig. 8A

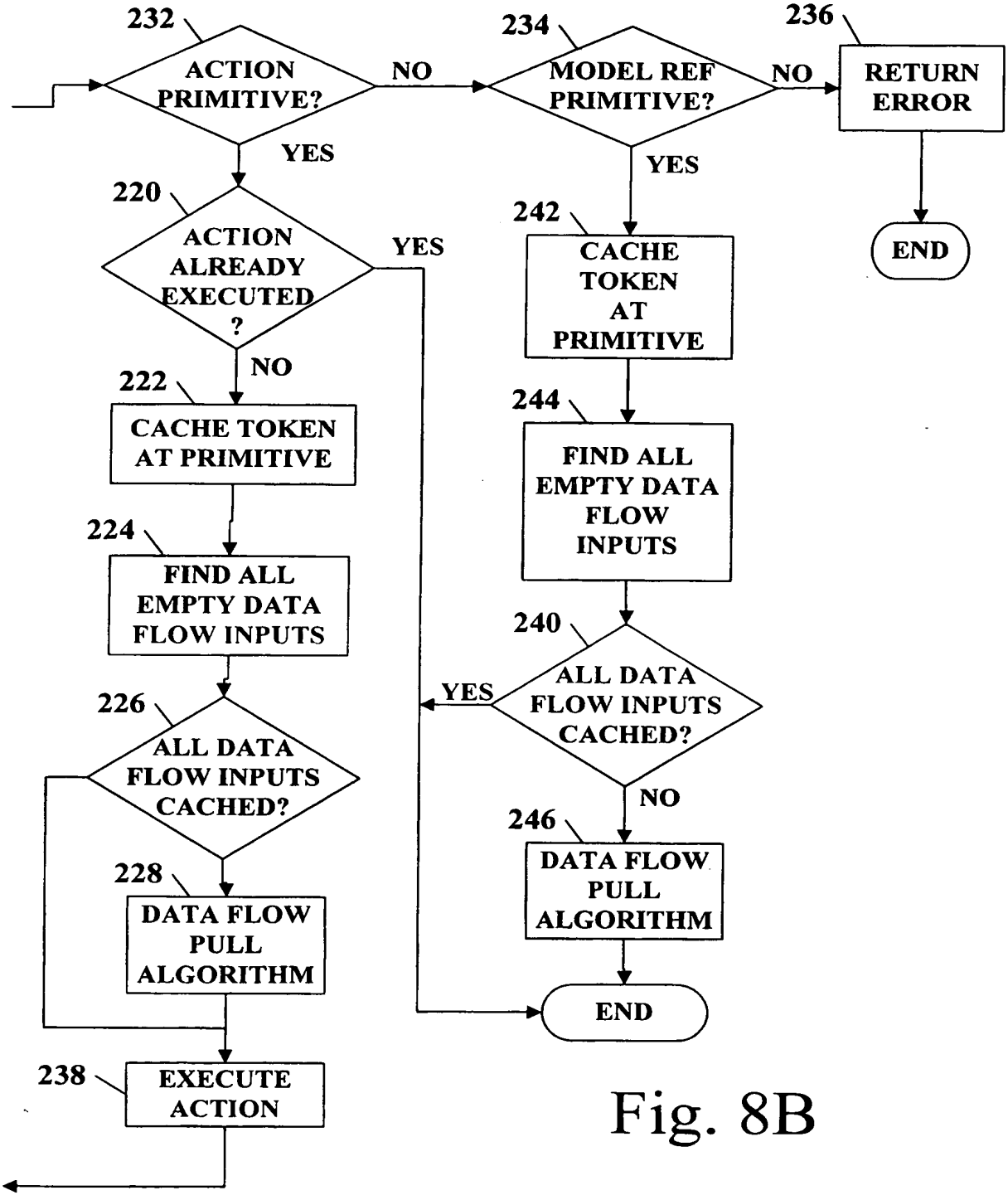

232
ACTION PRIMITIVE?
NO
234
MODEL REF PRIMITIVE?
NO
236
RETURN ERROR
YES
YES
END
220
ACTION ALREADY EXECUTED ?
YES
242
CACHE TOKEN AT PRIMITIVE
NO
222
CACHE TOKEN AT PRIMITIVE
244
FIND ALL EMPTY DATA FLOW INPUTS
224
FIND ALL EMPTY DATA FLOW INPUTS
240
ALL DATA FLOW INPUTS CACHED?
YES
226
ALL DATA FLOW INPUTS CACHED?
NO
246
DATA FLOW PULL ALGORITHM
228
DATA FLOW PULL ALGORITHM
END
238
EXECUTE ACTION

Fig. 8B

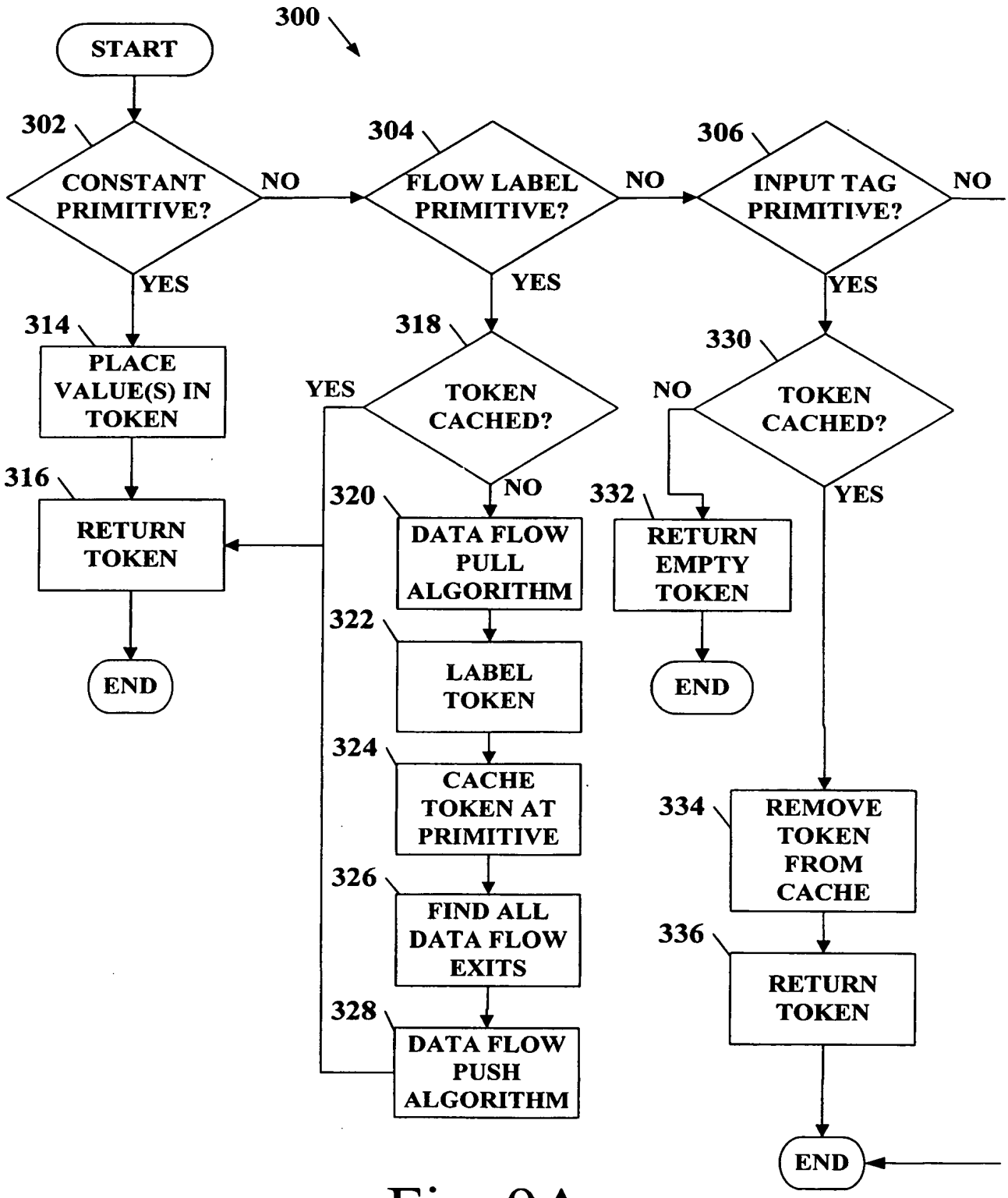

300
START
302
CONSTANT PRIMITIVE?
NO
304
FLOW LABEL PRIMITIVE?
NO
306
INPUT TAG PRIMITIVE?
NO
YES
YES
YES
314
PLACE VALUE(S) IN TOKEN
318
TOKEN CACHED?
YES
330
TOKEN CACHED?
NO
316
RETURN TOKEN
NO
320
DATA FLOW PULL ALGORITHM
332
RETURN EMPTY TOKEN
YES
322
LABEL TOKEN
END
END
324
CACHE TOKEN AT PRIMITIVE
334
REMOVE TOKEN FROM CACHE
326
FIND ALL DATA FLOW EXITS
336
RETURN TOKEN
328
DATA FLOW PUSH ALGORITHM
END

Fig. 9A

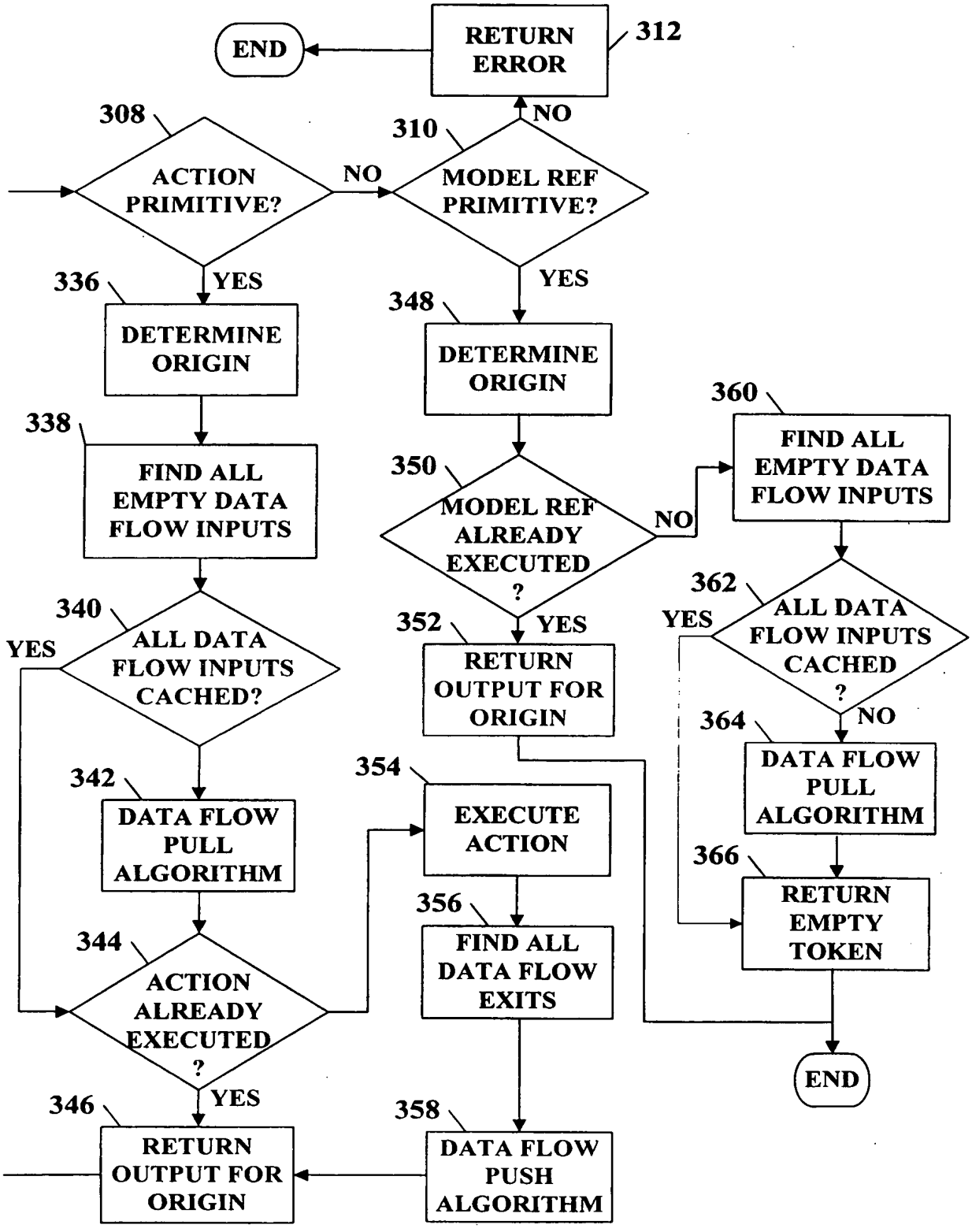

RETURN ERROR
312
END
NO
308
ACTION PRIMITIVE?
NO
310
MODEL REF PRIMITIVE?
YES
YES
336
DETERMINE ORIGIN
348
DETERMINE ORIGIN
338
FIND ALL EMPTY DATA FLOW INPUTS
350
MODEL REF ALREADY EXECUTED ?
NO
360
FIND ALL EMPTY DATA FLOW INPUTS
340
ALL DATA FLOW INPUTS CACHED?
YES
YES
352
RETURN OUTPUT FOR ORIGIN
362
ALL DATA FLOW INPUTS CACHED ?
YES
NO
342
DATA FLOW PULL ALGORITHM
354
EXECUTE ACTION
364
DATA FLOW PULL ALGORITHM
344
ACTION ALREADY EXECUTED ?
356
FIND ALL DATA FLOW EXITS
366
RETURN EMPTY TOKEN
END
YES
346
RETURN OUTPUT FOR ORIGIN
358
DATA FLOW PUSH ALGORITHM

Fig. 9B

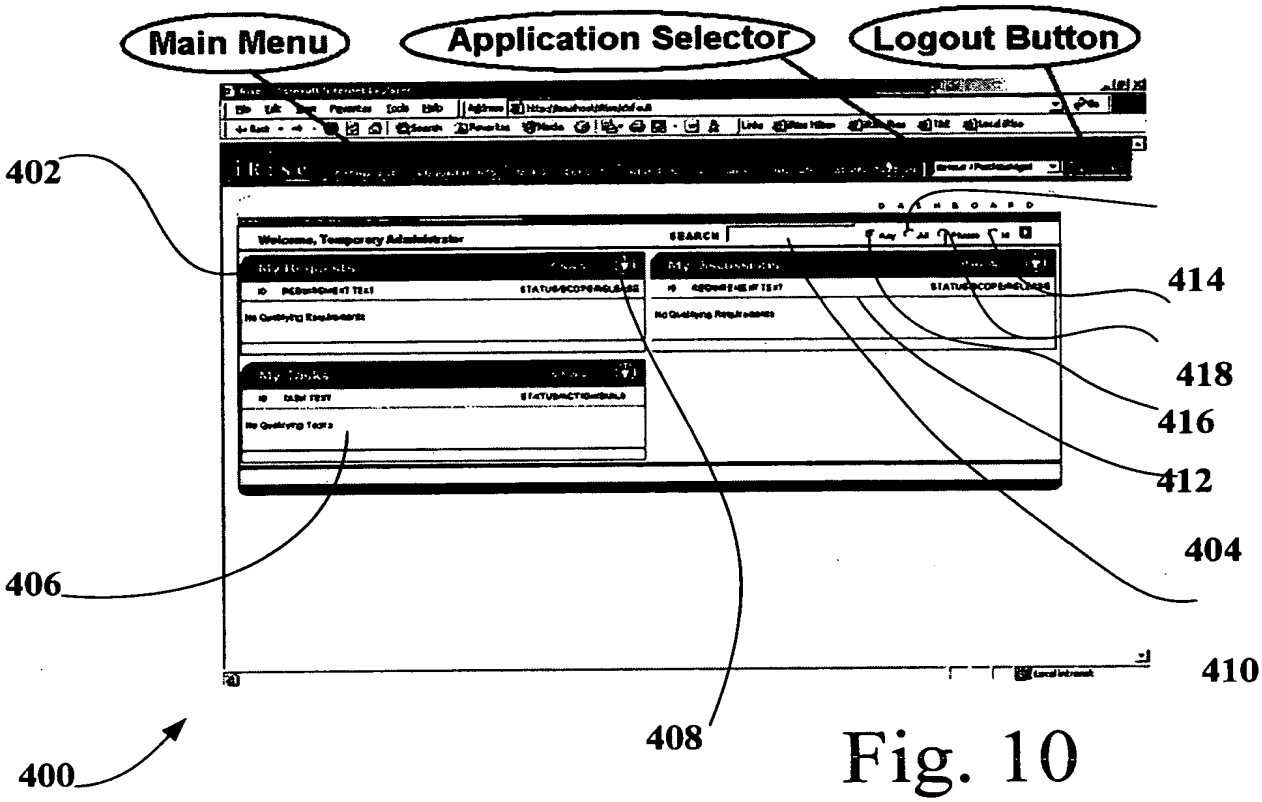
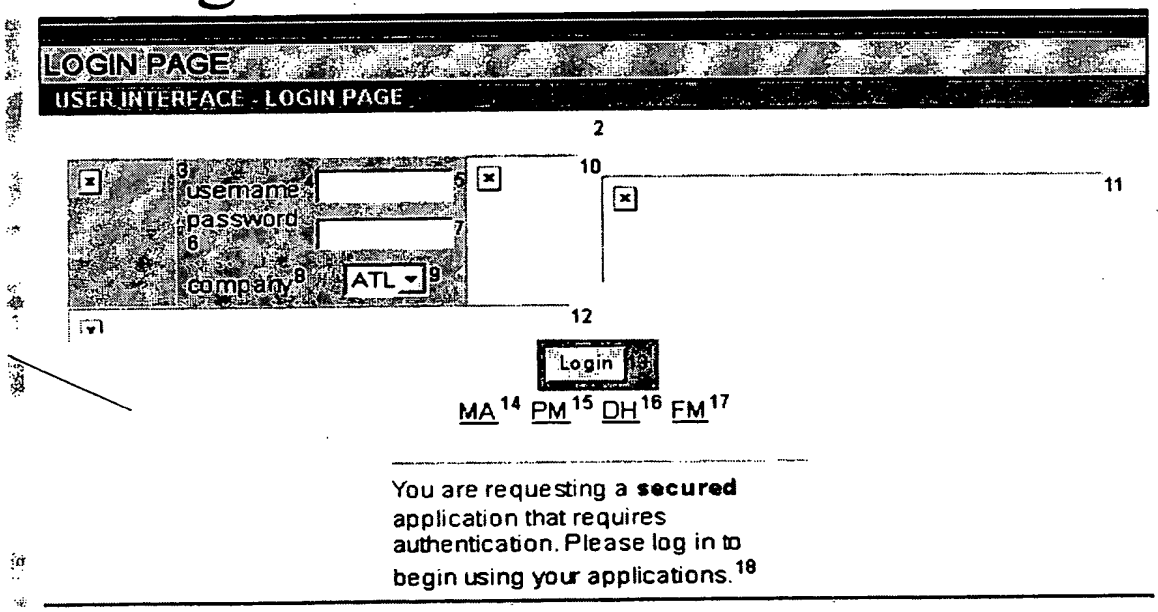

Main Menu
Application Selector
Logout Button
402
414
418
416
412
404
406
410
408
400

Fig. 10

Fig. 11


LOGIN PAGE
USER INTERFACE - LOGIN PAGE
2
username
password
company
ATL
10
11
12
502
Login
MA 14 PM 15 DH 16 FM 17
You are requesting a secured application that requires authentication. Please log in to begin using your applications. 18

504

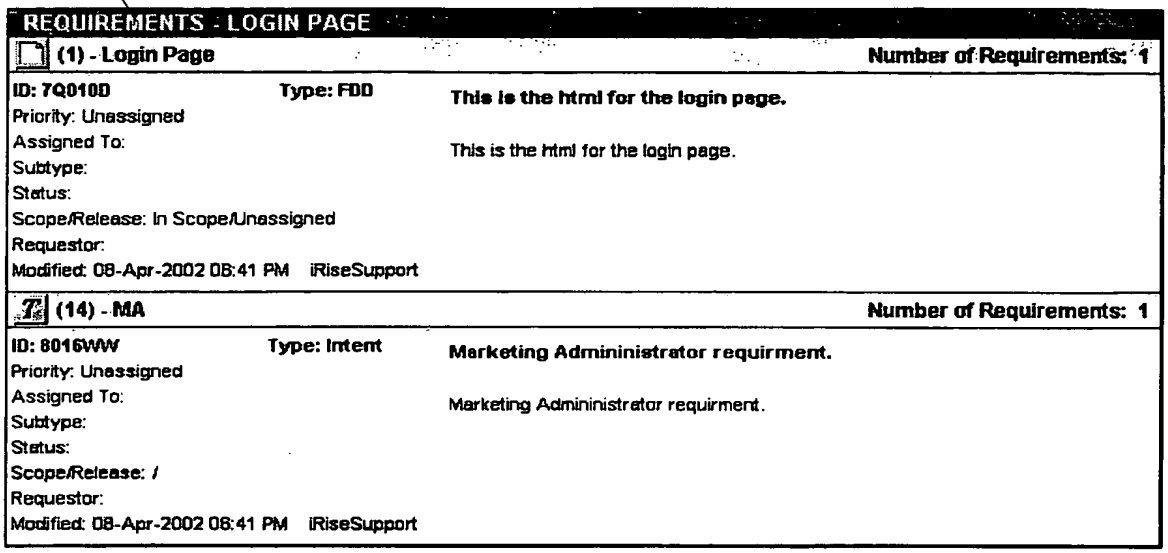


Fig. 12

506

508

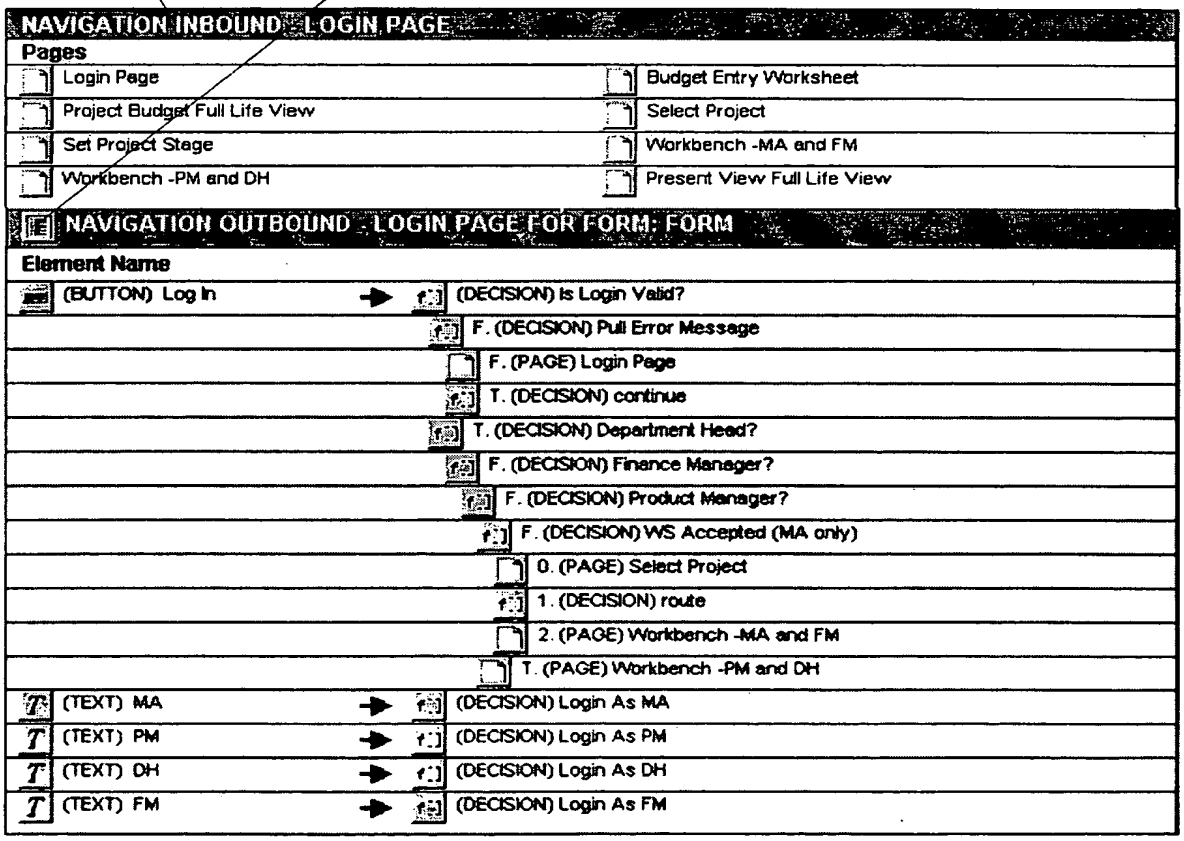


Fig. 13

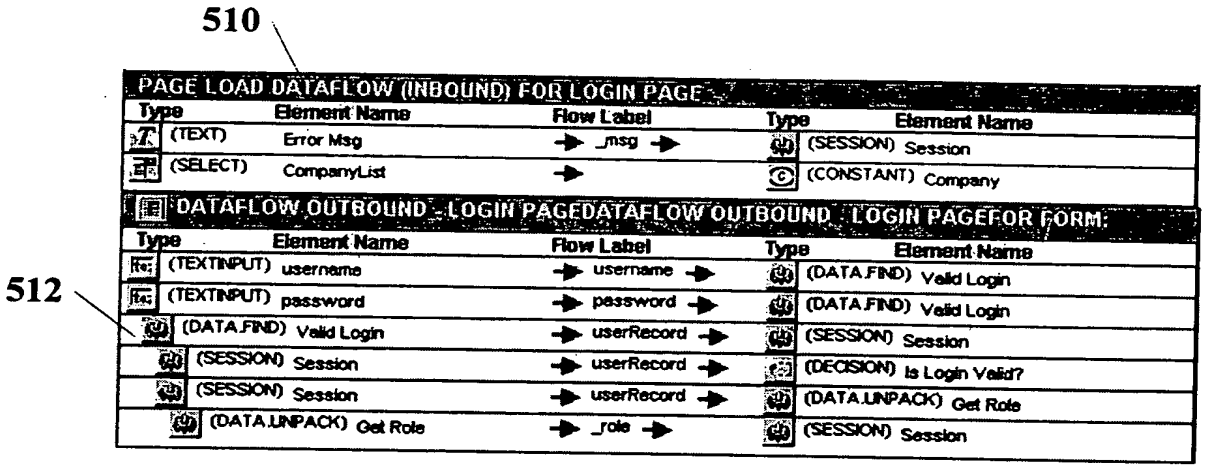

510
512
PAGE LOAD DATAFLOW (INBOUND) FOR LOGIN PAGE
Type Element Name Flow Label Type Element Name
(TEXT) Error Msg _msg (SESSION) Session
(SELECT) CompanyList (CONSTANT) Company
DATAFLOW OUTBOUND - LOGIN PAGEDATAFLOW OUTBOUND - LOGIN PAGEFOR FORM:
Type Element Name Flow Label Type Element Name
(TEXTINPUT) username username (DATA.FIND) Valid Login
(TEXTINPUT) password password (DATA.FIND) Valid Login
(DATA.FIND) Valid Login userRecord (SESSION) Session
(SESSION) Session userRecord (DECISION) Is Login Valid?
(SESSION) Session userRecord (DATA.UNPACK) Get Role
(DATA.UNPACK) Get Role _role (SESSION) Session

Fig. 14

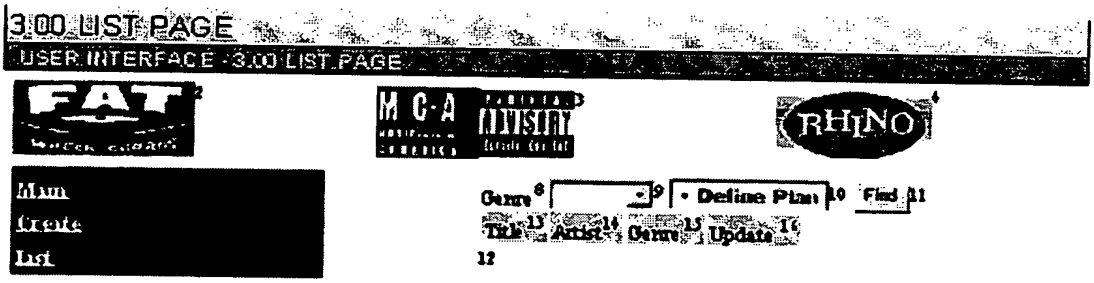

3.00 LIST PAGE
USER INTERFACE - 3.00 LIST PAGE
FAT
M C-A
RHINO
Main
Create
List
Genre
Define Play
Find
Title
Artist
Genre
Update

Fig. 15

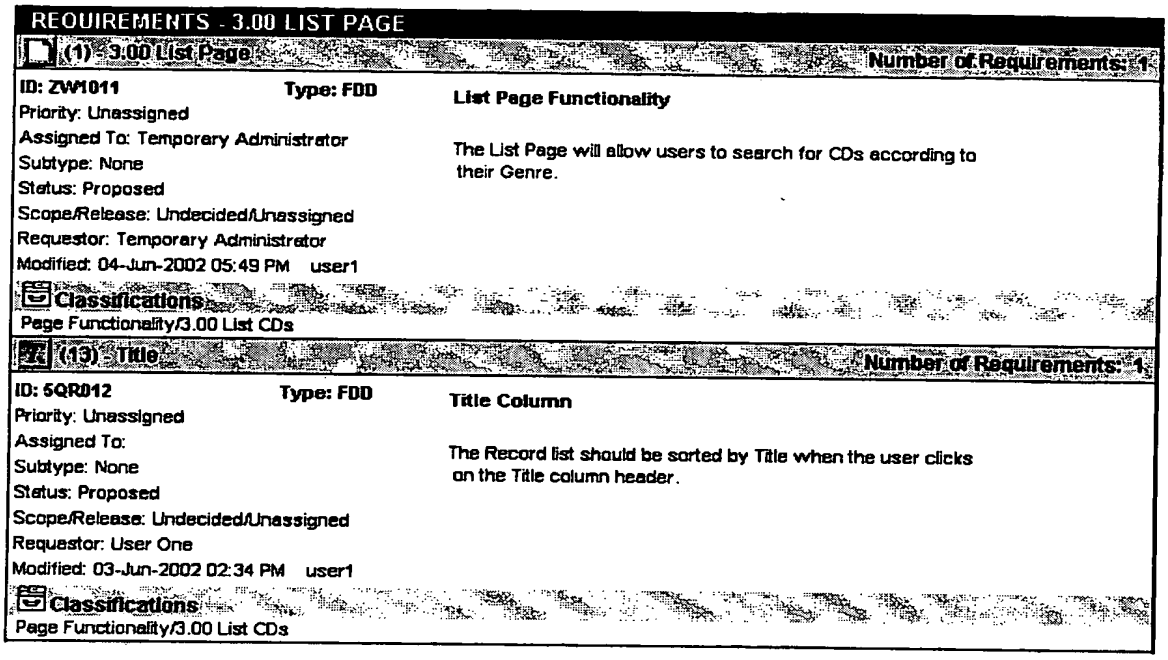

REQUIREMENTS - 3.00 LIST PAGE
(1) 3.00 List Page
Number of Requirements: 1
ID: ZWI011
Type: FDD
Priority: Unassigned
Assigned To: Temporary Administrator
Subtype: None
Status: Proposed
Scope/Release: Undecided/Unassigned
Requestor: Temporary Administrator
Modified: 04-Jun-2002 05:49 PM user1
List Page Functionality
The List Page will allow users to search for CDs according to their Genre.
Classifications
Page Functionality/3.00 List CDs
(13) Title
Number of Requirements: 1
ID: SQR012
Type: FDD
Priority: Unassigned
Assigned To:
Subtype: None
Status: Proposed
Scope/Release: Undecided/Unassigned
Requestor: User One
Modified: 03-Jun-2002 02:34 PM user1
Title Column
The Record list should be sorted by Title when the user clicks on the Title column header.
Classifications
Page Functionality/3.00 List CDs

Fig. 16

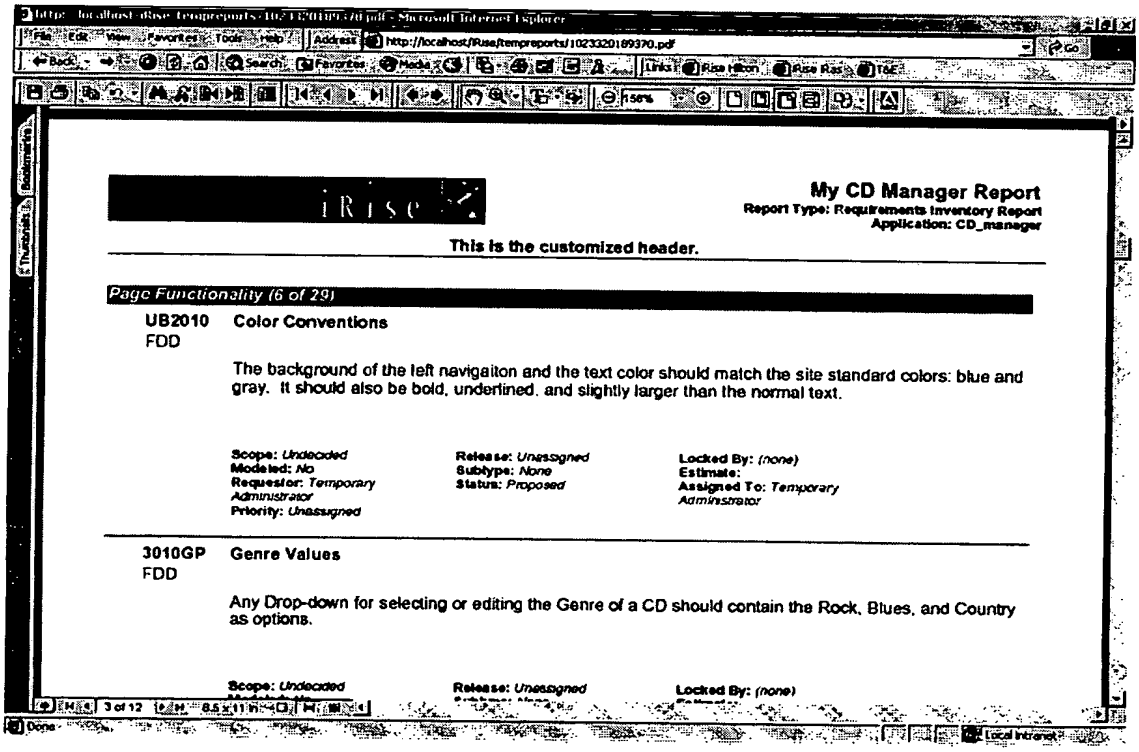

iRise
My CD Manager Report
Report Type: Requirements Inventory Report
Application: CD_manager
This is the customized header.
Page Functionality (6 of 29)
UB2010 Color Conventions
FDD
The background of the left navigaiton and the text color should match the site standard colors: blue and gray. It should also be bold, underlined, and slightly larger than the normal text.
Scope: Undecided
Modeled: No
Requestor: Temporary Administrator
Priority: Unassigned
Release: Unassigned
Subtype: None
Status: Proposed
Locked By: (none)
Estimate:
Assigned To: Temporary Administrator
3010GP Genre Values
FDD
Any Drop-down for selecting or editing the Genre of a CD should contain the Rock, Blues, and Country as options.
Scope: Undecided
Release: Unassigned
Locked By: (none)

Fig. 17

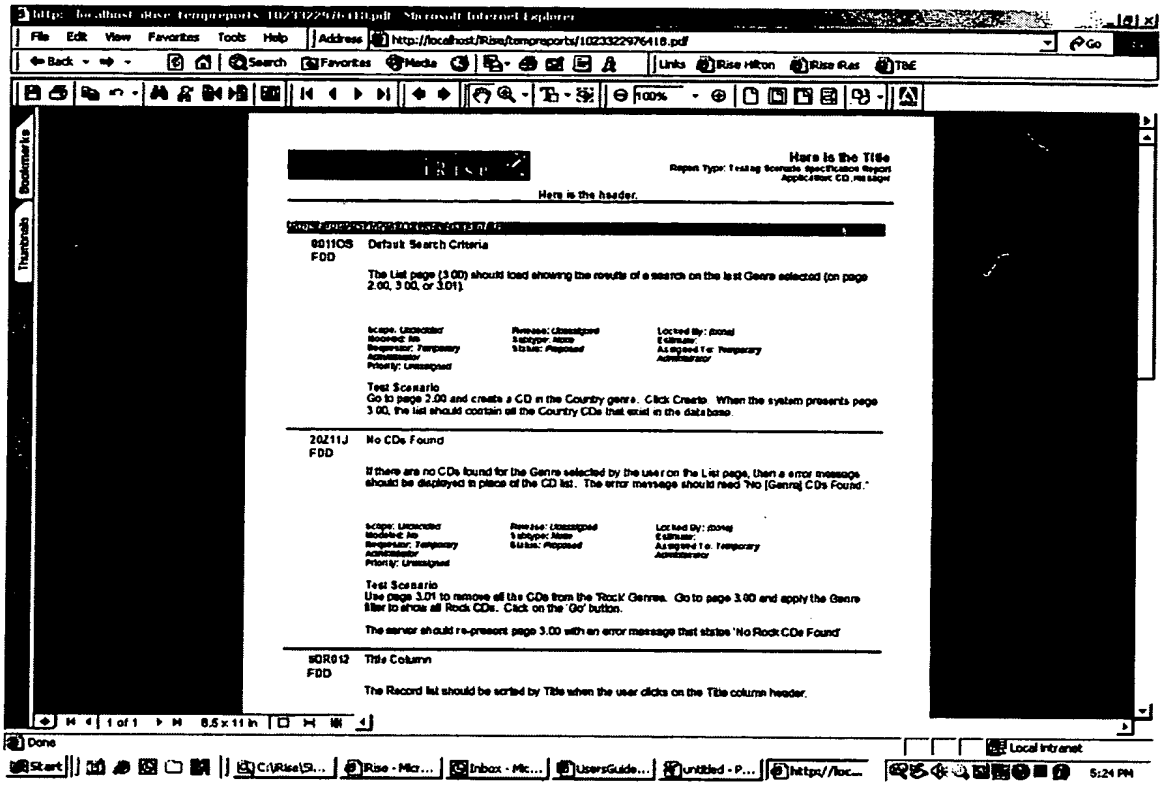

Here is the Title
Here is the header.
0011OS Default Search Criteria
FDD
The List page (3.00) should load showing the results of a search on the last Genre selected (on page 2.00, 3.00, or 3.01).
Test Scenario
Go to page 2.00 and create a CD in the Country genre. Click Create. When the system presents page 3.00, the list should contain all the Country CDs that exist in the database.
20Z11J No CDs Found
FDD
If there are no CDs found for the Genre selected by the user on the List page, then a error message should be displayed in place of the CD list. The error message should read "No [Genre] CDs Found."
Test Scenario
Use page 3.01 to remove all the CDs from the 'Rock' Genres. Go to page 3.00 and apply the Genre filter to show all Rock CDs. Click on the 'Go' button.
The server should re-present page 3.00 with an error message that states 'No Rock CDs Found'
s0R012 Title Column
FDD
The Record list should be sorted by Title when the user clicks on the Title column header.

Fig. 18

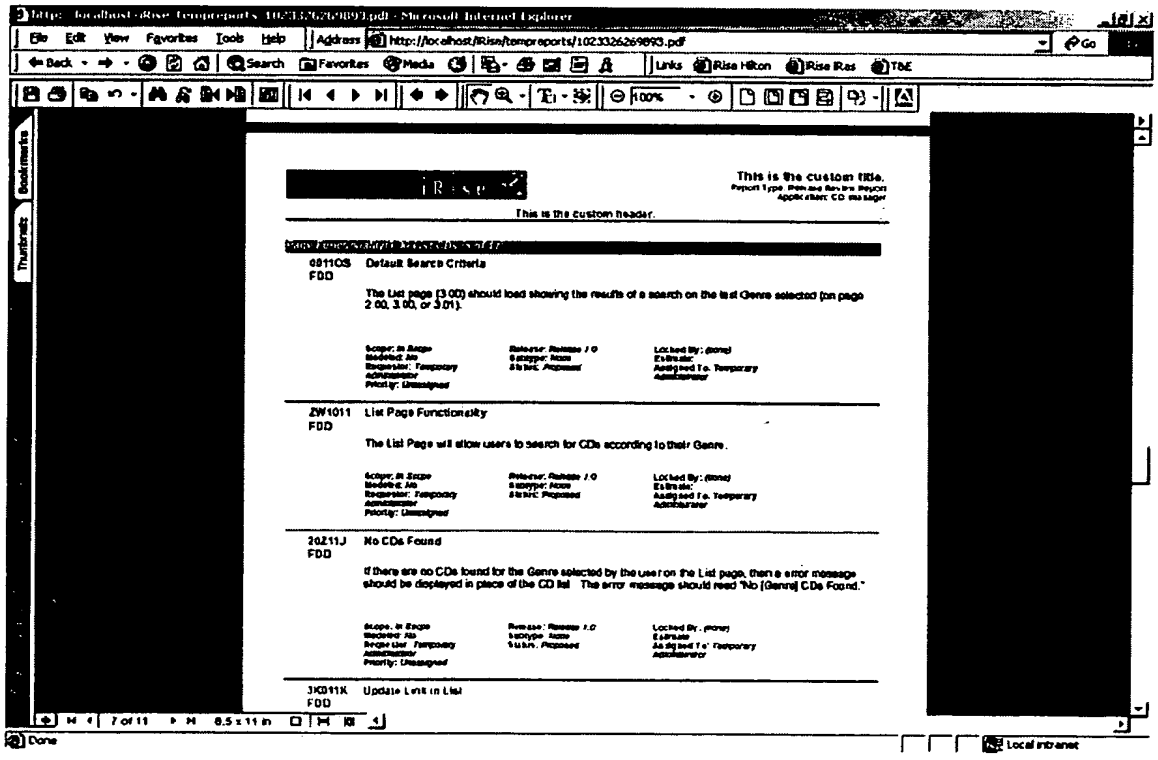

This is the custom title.
This is the custom header.
0011OS Default Search Criteria
FDD
The List page (3.00) should load showing the results of a search on the last Genre selected (on page 2.00, 3.00, or 3.01).
ZW1011 List Page Functionality
FDD
The List Page will allow users to search for CDs according to their Genre.
20Z11J No CDs Found
FDD
If there are no CDs found for the Genre selected by the user on the List page, then a error message should be displayed in place of the CD list. The error message should read "No [Genre] CDs Found."
3K011K Update Link in List
FDD

Fig. 19

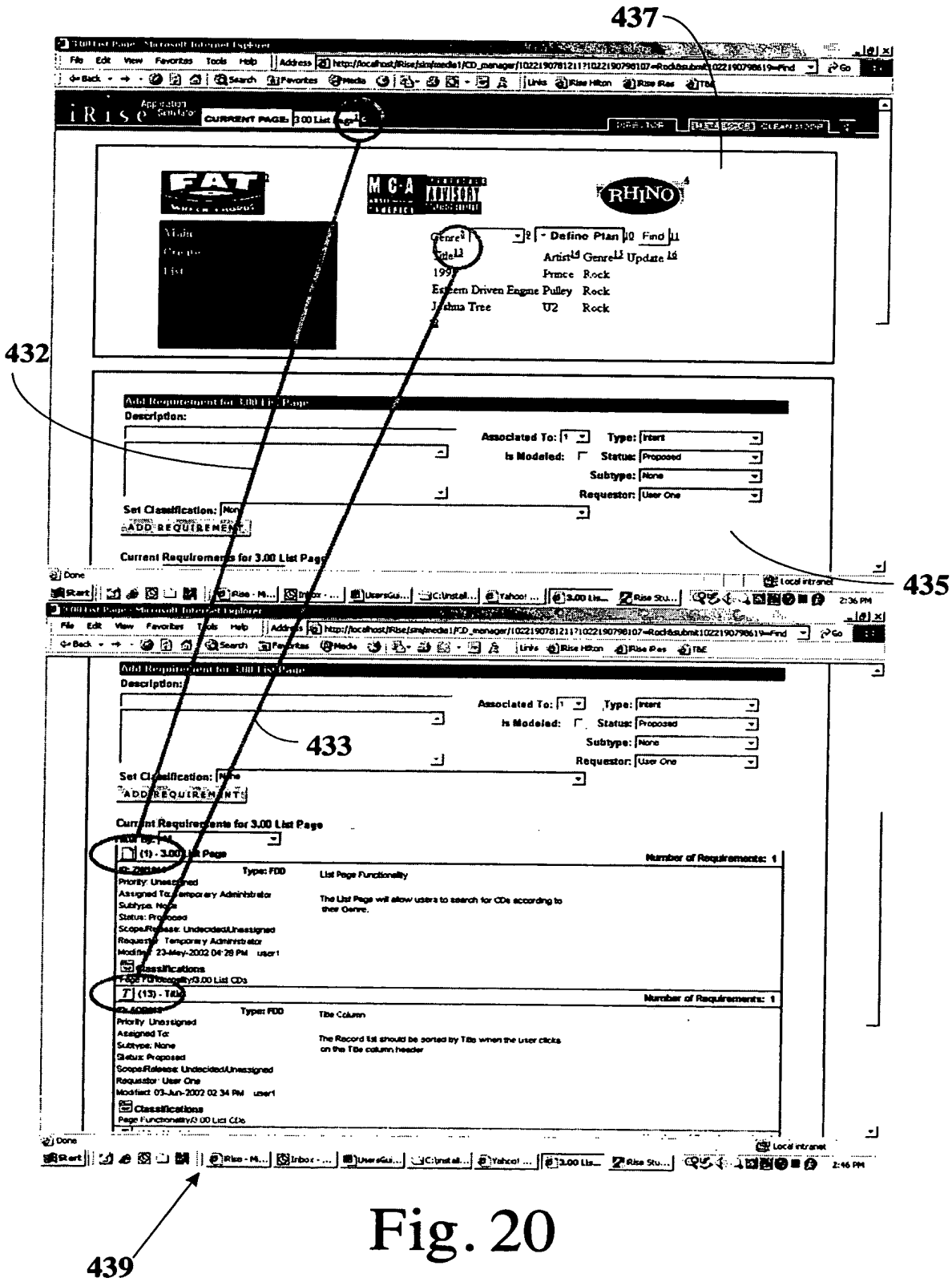

437
432
435
433
439
iRise
CURRENT PAGE: 3.00 List Page
Add Requirement for 3.00 List Page
Description:
Associated To:
Type: Intent
Is Modeled:
Status: Proposed
Subtype: None
Requestor: User One
Set Classification:
ADD REQUIREMENT
Current Requirements for 3.00 List Page
Number of Requirements: 1
List Page Functionality
The List Page will allow users to search for CDs according to their Genre.
Number of Requirements: 1
Title Column
The Record list should be sorted by Title when the user clicks on the Title column header

Fig. 20

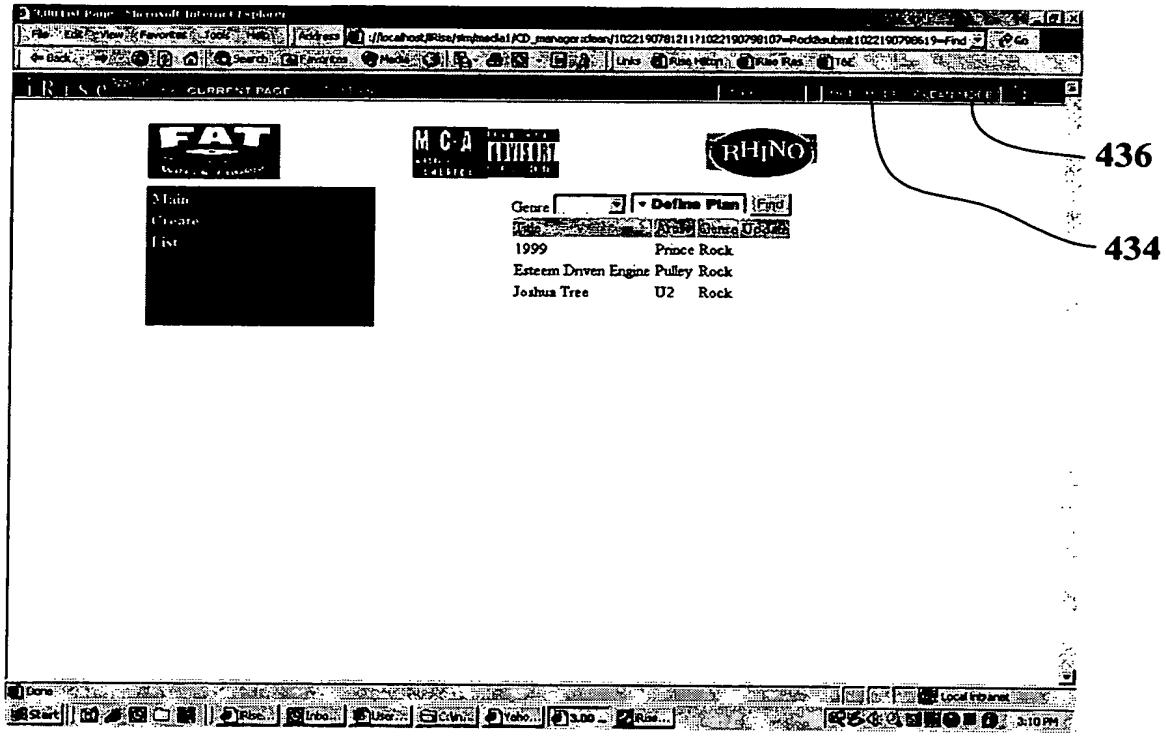

436
434
FAT
MCA
RHINO
Main
Create
List
Genre
Define Plan
Find
1999 Prince Rock
Esteem Driven Engine Pulley Rock
Joshua Tree U2 Rock

Fig. 21

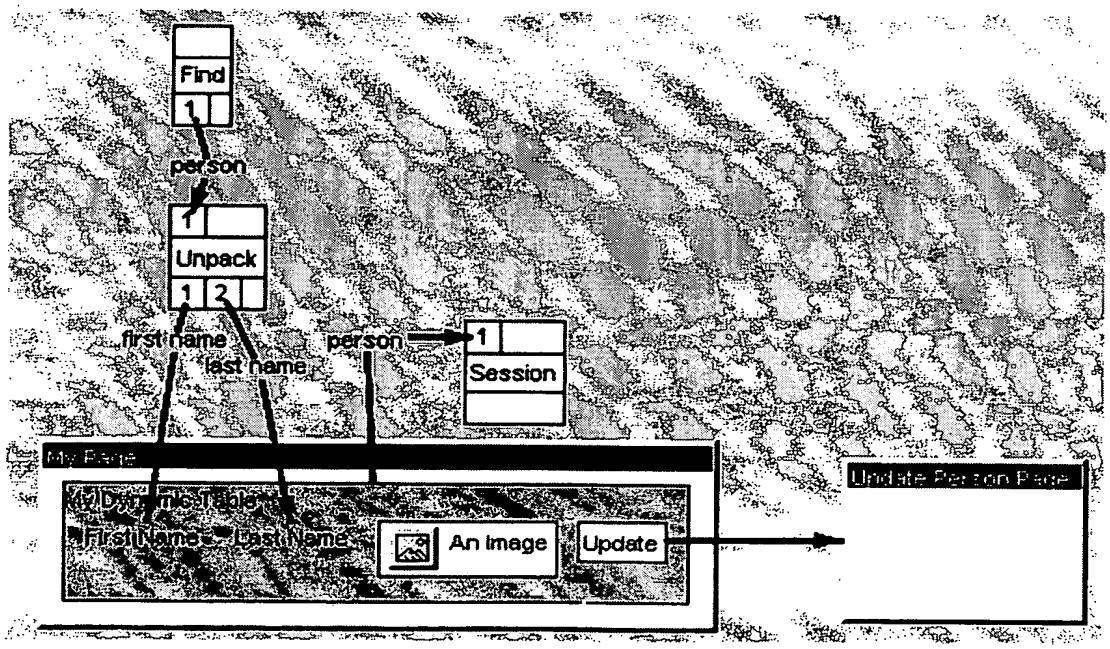

Find
1
person
1
Unpack
1 2
first name
last name
person
1
Session
My Page
My Dynamic Table
First Name
Last Name
An Image
Update
Update Person Page

Fig. 22

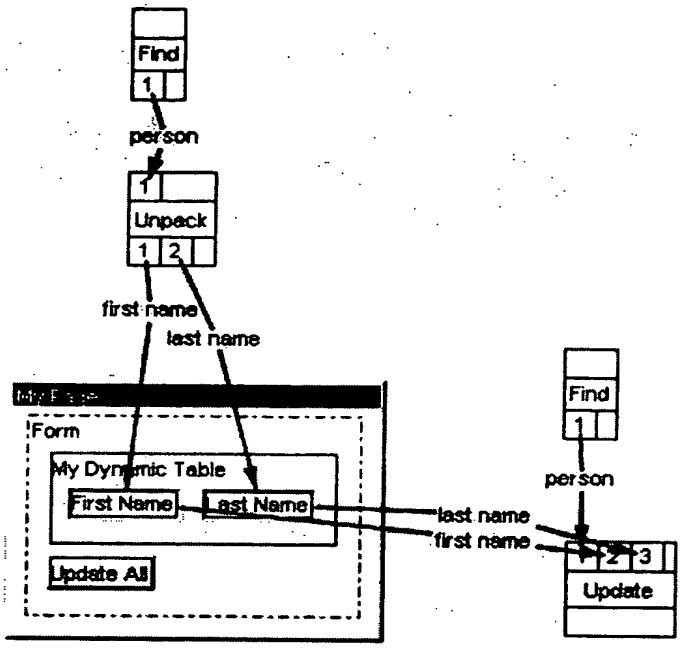


Fig. 23

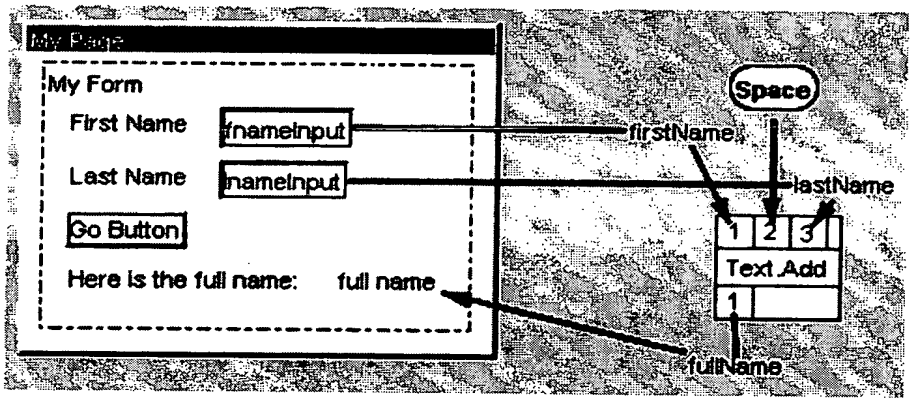


Fig. 24

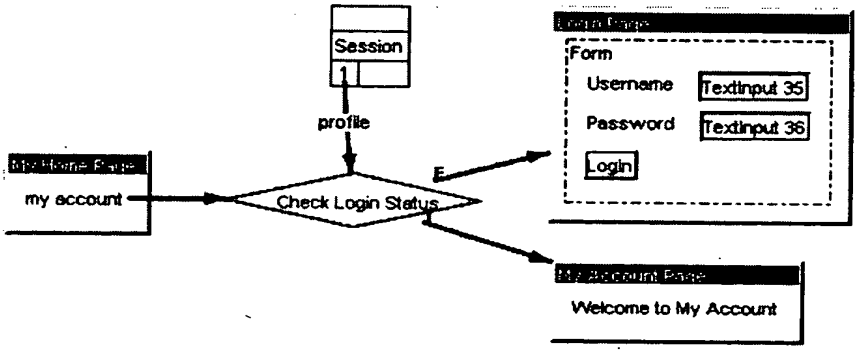


Fig. 25

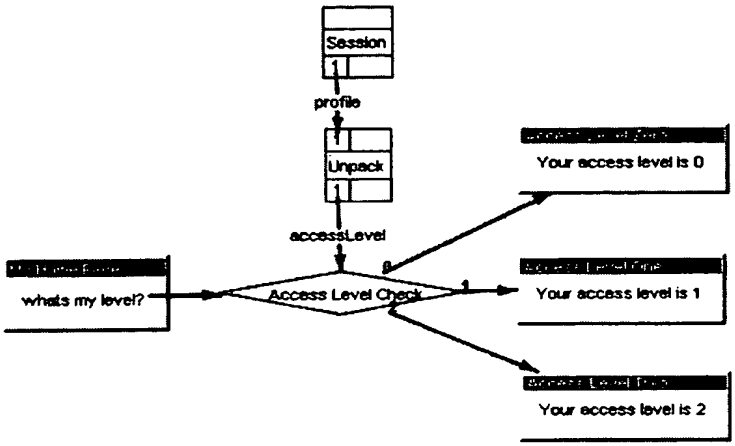


Fig. 26

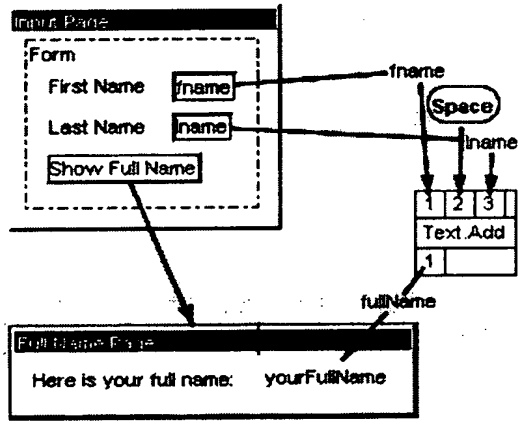


Fig. 27

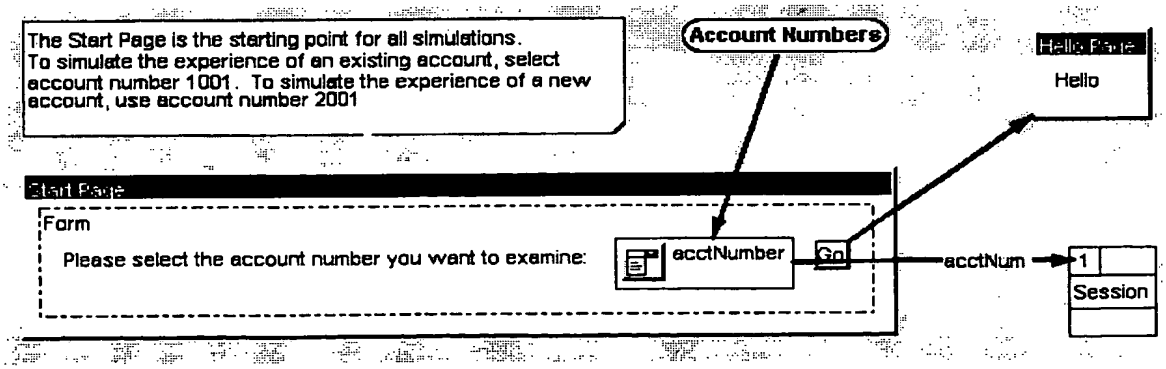


Fig. 28

Fig. 29

Fig. 30

Fig. 31

Fig. 32

Fig. 33

Fig. 34

Fig. 35

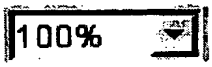
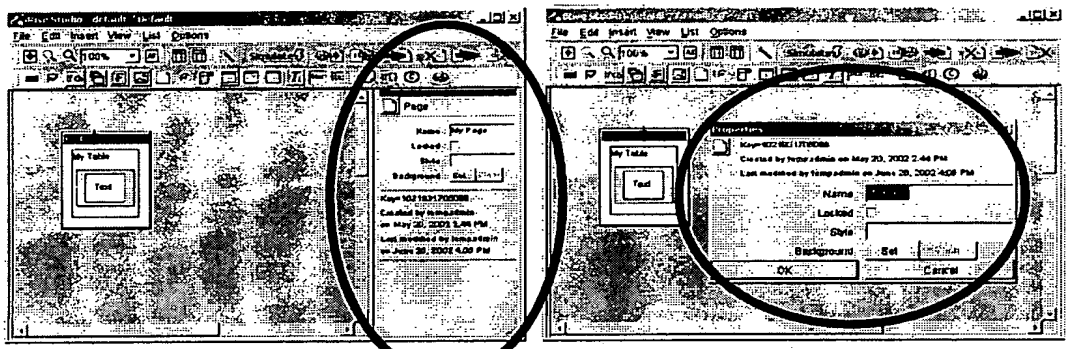


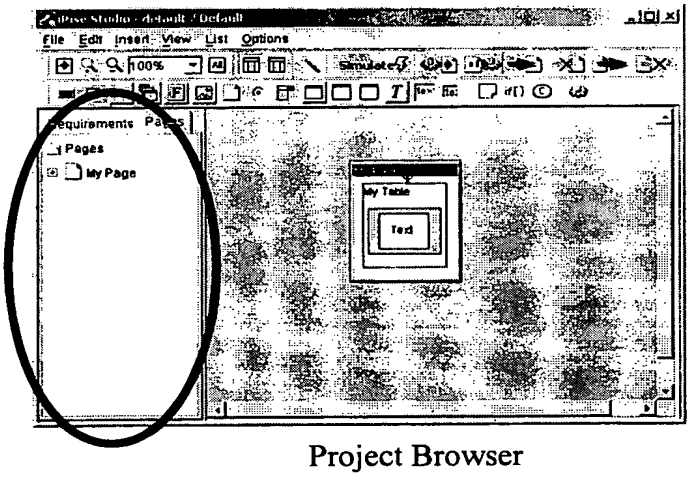
Fig. 36

Fig. 37



Property Editor Pane Property Editor Pop-Up

Fig. 38



Project Browser

Fig. 39

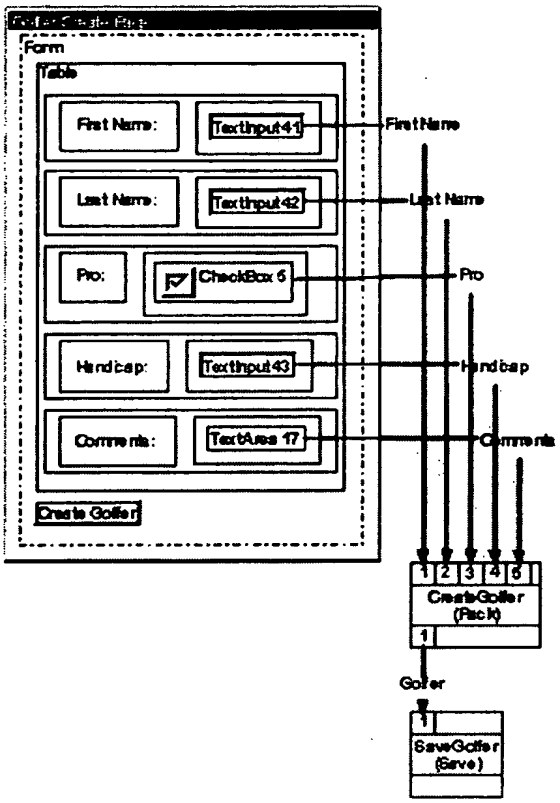

Form
Table
First Name:
TextInput41
First Name
Last Name:
TextInput42
Last Name
Pro:
CheckBox 6
Pro
Handicap:
TextInput43
Handicap
Comments:
TextArea 17
Comments
Create Golfer
1 2 3 4 5
CreateGolfer
(Pack)
1
Golfer
1
SaveGolfer
(Save)

Fig. 40

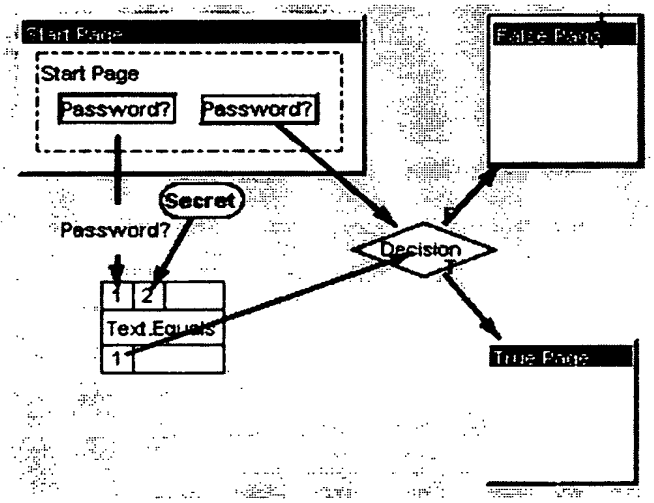

Start Page
Start Page
Password?
Password?
Secret
Password?
Decision
1 2
Text.Equals
1
True Page

Fig. 41

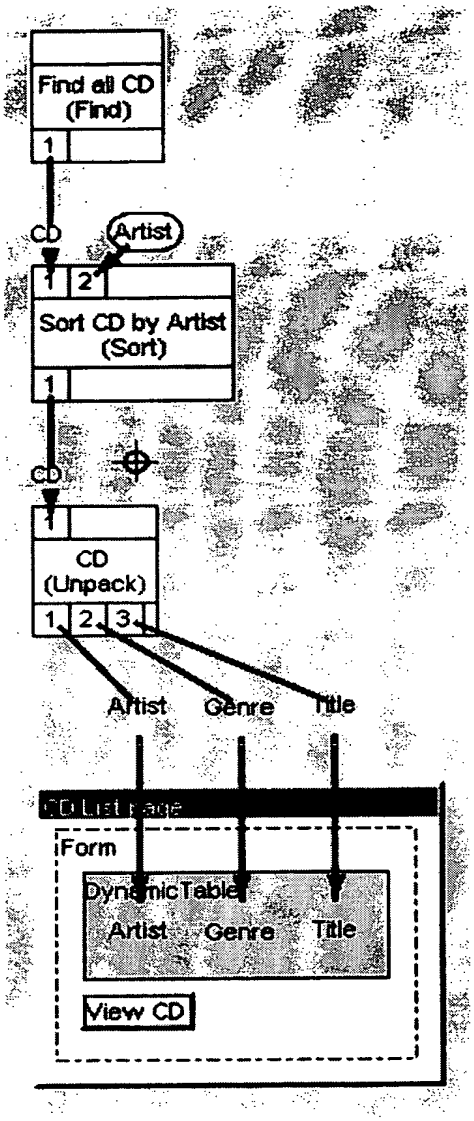

Find all CD
(Find)
1
CD
Artist
1
2
Sort CD by Artist
(Sort)
1
CD
1
CD
(Unpack)
1
2
3
Artist
Genre
Title
CD List Page
Form
DynamicTable
Artist
Genre
Title
View CD

Fig. 42

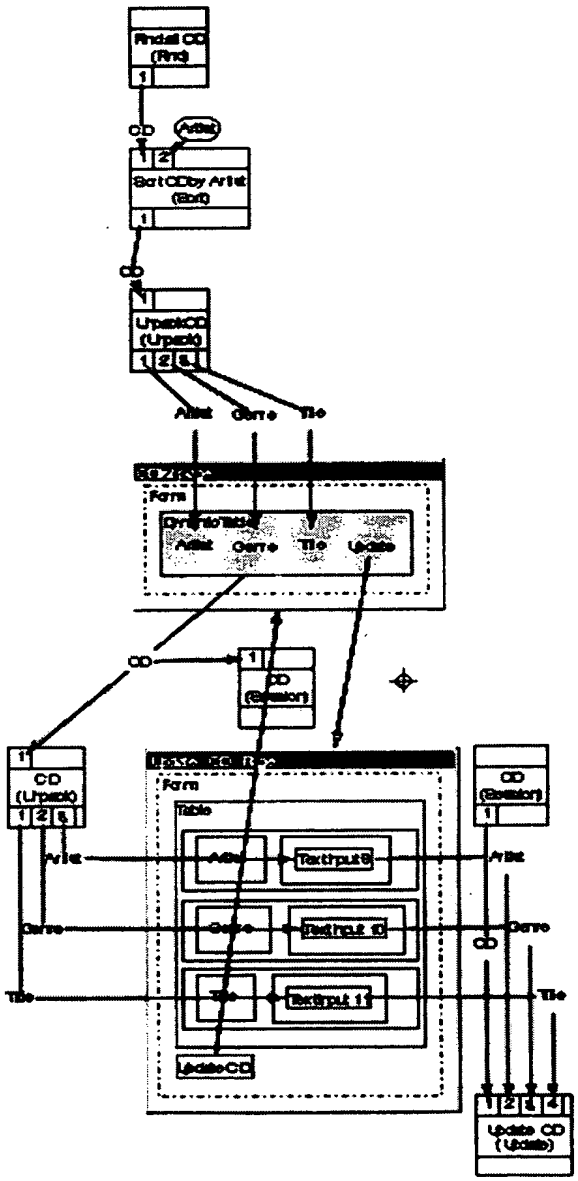

Find all CD
(Find)
1
CD
Artist
1
2
Sort CD by Artist
(Sort)
1
CD
1
Unpack CD
(Unpack)
1
2
5
Artist
Genre
Title
Form
Artist
Genre
Title
Update
CD
1
CD
(Deletion)
1
CD
(Unpack)
1
2
5
Form
Table
Artist
TextInput 9
Artist
Genre
TextInput 10
Genre
Title
TextInput 11
Title
Update CD
CD
(Deletion)
1
Artist
Genre
CD
Title
1
2
4
Update CD
(Update)

Fig. 43